

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for preparing a thermoplastic resin composition ~~having excellent heat stability and heat resistance~~, which comprises the steps of:
 - a) preparing a graft ABS polymer by emulsion polymerization of:
 - i) 40 to 70 wt parts of conjugated diene rubber latex;
 - ii) 15 to 40 wt parts of an aromatic vinyl compound; and
 - iii) 5 to 20 wt parts of a vinyl cyanide;
 - b) preparing a copolymer ~~having excellent heat resistance by mass polymerization of by:~~
 - i) ~~50 to 80 wt parts of an aromatic vinyl compound~~ mixing 55 to 80 wt part alphamethyl styrene, 20 to 45 wt part acrylonitrile, 26 to 30 wt parts a solvent; and 0.1 to 0.5 wt parts a molecular weight controlling agent in a polymerization reactor; and
 - ii) ~~20 to 50 wt parts of a vinyl cyanide~~ conducting a mass polymerization at 140~170°C for 2~4 hours;
the mass polymerization is controlled so that the copolymer comprises less than 15% of aromatic vinyl aromatic vinyl aromatic vinyl chain structure wherein the copolymer comprises less than 15% alphamethyl styrene-alphamethyl styrene-alphamethyl styrene chain and 45% or less alphamethyl styrene-acrylonitrile-acrylonitrile chain; and
 - c) blending the graft ABS polymer and the copolymer ~~having excellent heat resistance~~.
2. (Currently Amended) The method according to claim 1, wherein the conjugated diene rubber latex has ~~2500~5000 Å of a~~ number average particle size of 2500~5000 Å, ~~70~95 % of a~~ gel content of 70~95 %, and ~~12~30 of a~~ swelling index of 12~30.

3. (Previously Presented) The method according to claim 1, wherein the graft ABS polymer has a graft rate of 26% or more, as percentage of the weight of grafted monomers based on the weight of the rubber latex.

4. (Canceled)

5. (Previously Presented) The method according to claim 1, wherein the conjugated diene rubber latex is an aliphatic conjugated diene compound, or a mixture of an aliphatic conjugated diene compound and an ethylene-based unsaturated monomer.

6. (Original) The method according to claim 1, wherein the a) ii) aromatic vinyl compound is selected from the group consisting of styrene, α -methyl styrene, o-ethyl styrene, p-ethyl styrene, and vinyl toluene.

7. (Original) The method according to claim 1, wherein the a) iii) vinyl cyanide is selected from the group consisting of acrylonitrile, methacrylonitrile, and ethacrylonitrile.

8-9. (Canceled)

10. (Currently Amended) The method according to claim 1, wherein in step c), 20 to 80 wt parts of the graft ABS polymer and 80 to 20 wt parts of the copolymer ~~having excellent heat resistance~~ are blended.

11. (Previously Presented) The method according to claim 1, wherein in step c), one or more additives selected from the group consisting of a lubricant, an antioxidant, a light stabilizer are further added.

12. (Currently Amended) The method according to claim 1, wherein the conjugated diene rubber latex is prepared by:

a) simultaneously introducing 100 wt parts of a conjugated diene, 1~4 wt parts of an emulsifier, 0.1~0.6 wt parts of a polymerization initiator, 0.1~1.0 wt parts of an electrolyte, 0.1~0.5 wt parts of a molecular weight controlling agent, and 90~130 wt parts of ion exchanged water into a polymerization reactor, and reacting them at 50 to 65 °C for 7 to 12 hours;

b) simultaneously introducing 0.05~1.2 wt parts of a molecular weight controlling agent into the reactant obtained in step a), and reacting them at 55 to 70 °C for 5 to 15 hours to prepare conjugated diene rubber latex having a small diameter, which has a number average particle diameter of 600~1500 Å, a gel content of 7~95 %, and a swelling index of 12~30; and

c) introducing 2.5~4.5 wt parts of an acetic acid aqueous solution into 100 wt parts of the conjugated diene rubber latex having a small diameter prepared in step b) while stirring for 1 hour to increase particle size of the latex, thereby preparing conjugated diene rubber latex having a large diameter, which has a number average particle diameter of 2500~5000 Å, a gel content of 70~95 % and a swelling index of 12~30.

13. (Currently Amended) The method according to claim 1, wherein the graft ABS polymer is prepared by:

a) adding

i) 40 to 70 wt parts of the conjugated diene rubber latex;

ii) 15 to 40 wt part of the aromatic vinyl compound;

iii) 5 to 20 wt part of the vinyl cyanide compound;

iv) 0.2 to 0.6 wt parts of an emulsifier;

v) 0.2 to 0.6 wt parts of a molecular weight controlling agent; and

vi) 0.1 to 0.5 wt parts of a polymerization initiator

into a polymerization reactor, and

b) conducting a graft copolymerization under conditions of polymerization temperature of 45 to 80 °C and polymerization time of 3 to 5 hrs.

14. (Previously Presented) The method according to claim 13, wherein introduction is conducted simultaneously, in multi-stage or continuously.

15. (Previously Presented) The method according to claim 13, wherein the emulsifier is selected from the group consisting of alkyl aryl sulfonate, alkalimetal alkyl sulfate, sulfonated alkyl ester, soap of fatty acid, alkali salts of rosinatate, and a mixture thereof.

16. (Previously Presented) The method according to claim 13, wherein the polymerization initiator is selected from the group consisting of cumene hydroperoxide, diisopropyl benzene hydroperoxide, persulfate, sodium formaldehyde sulfoxylate, sodium ethylene diamine tetraacetate, ferrous sulfate, dextrose, sodium pyrrolinate, sodium sulfite, and a mixture thereof.

17-18. (Canceled)